# 6. Simple HTTP Request

Create a Ruby function <code>get\_request(url)</code> that performs an HTTP GET request to the specified url and prints the response status code and body the output should be as shown bellow in json Format

```
Method: get request(url)
(imen@hbtn-lab)-[.../scripting cyber/0x00-ruby scripting]
└$ cat 6-main.rb
require relative '6-get'
get request('http://jsonplaceholder.typicode.com/posts/1')
\leftarrow (imen@hbtn-lab)-[.../scripting cyber/0 \times 00-ruby scripting]
└$ ruby 6-main.rb
Response status: 200 OK
Response body:
  "userId": 1,
 "id": 1,
  "title": "sunt aut facere repellat provident occaecati excepturi optio
reprehenderit",
  "body": "quia et suscipit\nsuscipit recusandae consequuntur expedita et
cum\nreprehenderit molestiae ut ut quas totam\nnostrum rerum est autem sunt
rem eveniet architecto"
```

## **Implementation**

```
require 'net/http'
require 'json'

def get_request(url)
    # Parse the URL
    uri = URI(url)

# Perform the HTTP GET request
    response = Net::HTTP.get_response(uri)

# Extract the status code and status message
    status_code = response.code
```

```
# Extract and parse the response body
response_body = JSON.parse(response.body)

# Print the output in the specified format
puts "Response status: #{status_code} #{status_message}"
puts "Response body:"
puts JSON.pretty_generate(response_body)
end
```

# **Explanation**

#### 1. Require Necessary Libraries:

- net/http: Handles the HTTP request.
- json: Parses and formats JSON responses.

#### 2. Parse the URL:

```
uri = URI(url)
```

Converts the provided URL into a URI object for the HTTP request.

## 3. Perform HTTP GET Request:

```
response = Net::HTTP.get_response(uri)
```

Sends an HTTP GET request to the server and captures the response.

### 4. Extract Status Code and Message:

```
status_code = response.code
status_message = response.message
```

Retrieves the status code (e.g., 200) and message (e.g., ok) from the response.

### 5. Parse the Response Body:

```
response_body = JSON.parse(response.body)
```

Parses the response body (JSON string) into a Ruby hash for formatting.

#### 6. Output the Response:

```
puts "Response status: #{status_code} #{status_message}"
puts "Response body:"
puts JSON.pretty_generate(response_body)
```

- Prints the status code and message.
- Formats the JSON body in a human-readable format using JSON.pretty generate.

### **Test Case**

## Input:

```
get_request('http://jsonplaceholder.typicode.com/posts/1')
```

### Output:

```
Response status: 200 OK
Response body:
{
    "userId": 1,
    "id": 1,
    "title": "sunt aut facere repellat provident occaecati excepturi optio
    reprehenderit",
    "body": "quia et suscipit\nsuscipit recusandae consequuntur expedita et
    cum\nreprehenderit molestiae ut ut quas totam\nnostrum rerum est autem sunt
    rem eveniet architecto"
}
```

### **Notes**

- This implementation assumes the response body is always valid JSON. If the server returns non-JSON data, it may raise a <code>JSON::ParserError</code>. To handle this, you can add error handling around <code>JSON.parse</code>.
- The Net::HTTP library is included in the Ruby standard library, so you don't need to install additional gems.